

[54] **SPEECH SYNTHESIZER WITH CAPABILITY OF DISCONTINUING TO PROVIDE AUDIBLE OUTPUT**

[75] Inventors: **Hideo Yoshida, Kashiwara; Hiroshi Tsuda, Uji, both of Japan**

[73] Assignee: **Sharp Kabushiki Kaisha, Osaka, Japan**

[21] Appl. No.: **218,752**

[22] Filed: **Dec. 22, 1980**

[30] **Foreign Application Priority Data**

Dec. 28, 1979 [JP] Japan 54-171551

[51] Int. Cl.³ **G10L 1/00**

[52] U.S. Cl. **381/51; 364/513; 381/104**

[58] Field of Search 179/1 SM, 1 SA, 1 SC, 179/1 P, 1 VL, 1 VC; 364/513, 710; 455/221, 478

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,135,590	1/1979	Gaulder	179/1 P
4,142,066	2/1979	Ahamed	179/1 P
4,185,169	1/1980	Tanimoto et al.	179/1 SM
4,323,730	4/1982	Brown	179/1 P

Primary Examiner—Emanuel S. Kemeny
Attorney, Agent, or Firm—Birch, Stewart, Kolasch & Birch

[57] **ABSTRACT**

A noise-free speech synthesizer is disclosed which interrupts an audible output of synthesized sounds during the period of time where a sound waveform signal is at a relatively low level (amplitude), that is, a voiceless interval, a silent interval or a pitch control interval, wherein a reference level is established for the purpose of controlling pitch. Such low-level cut-off avoids the harsh click of sound cut-off.

8 Claims, 5 Drawing Figures

